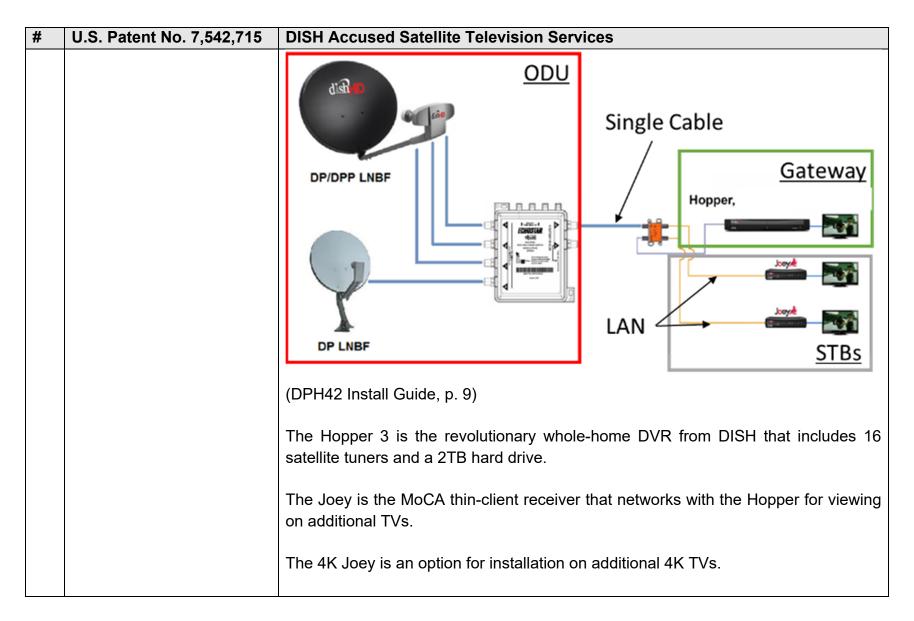
EXHIBIT E

Infringement of U.S. Patent No. 7,542,715 by DISH Accused Satellite Television Services

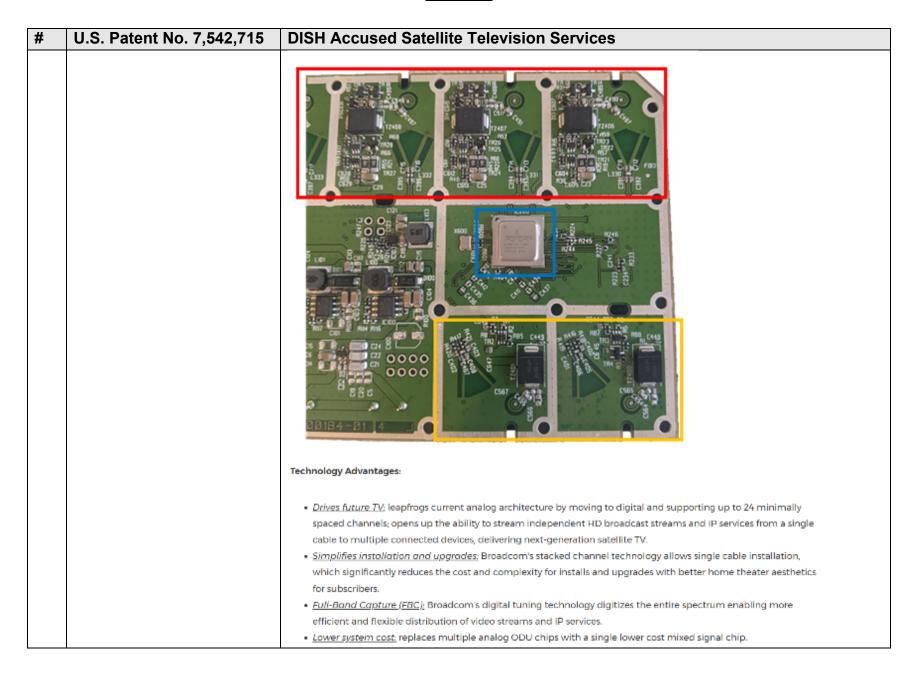
#	U.S. Patent No. 7,542,715	DISH Accused Satellite Television Services
9a	9. A signal distribution system for distributing a plurality of low noise amplifier and block converter (LNB) output signals from a satellite outdoor unit (ODU) comprising:	The Accused Satellite Television Services The Accused Satellite Television Services infringe the asserted claims utilizing, for example, gateway systems, which include Signal Selector and Combiner ("SSC")-enabled LNBs (for example, DISH Pro Hybrid ("DPH") LNBFs) and switches (for example, DPH42) used with gateways such as the Hopper 3 and corresponding set top boxes. By way of example, the DPH42 and corresponding gateways and set top boxes are charted herein. Single Cable ODU Single Cable Gateway Hopper, STBs
9b	a gateway in communication with the ODU and at least	The gateway systems include a gateway in communication with the ODU and at least one set top box (STB) as described below:
	one set top box (STB);	



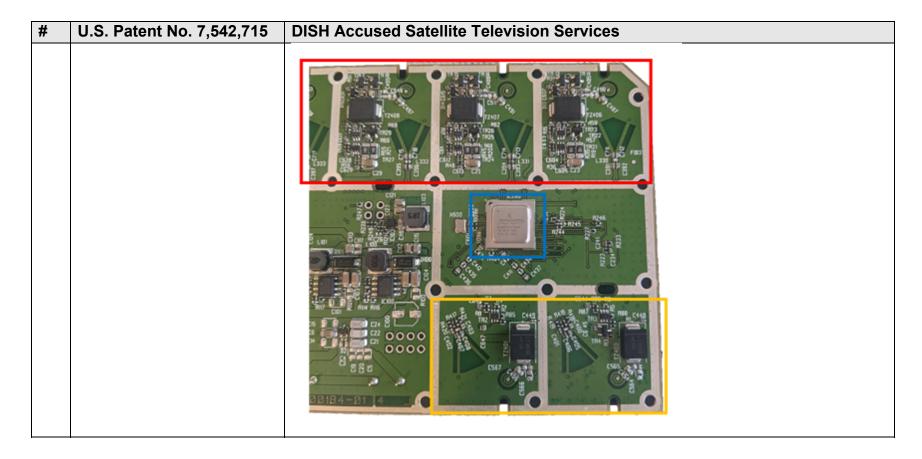
#	U.S. Patent No. 7,542,715	DISH Accused Satellite Television Services
		The Wireless Joey is an option for installation on additional TVs where a coaxial cable connection is not possible or difficult. It communicates with the Hopper via a DISH-dedicated video wireless 802.11ac router.
9c	a signal selector that receives a plurality of broadband LNB signals comprising a plurality of transponder signals, the signal selector is responsive to transponder select information transmitted by the gateway and selects a plurality of transponder signals from at least one broadband LNB signal based on the transponder select information;	The gateway systems include a signal selector that receives a plurality of broadband LNB signals comprising a plurality of transponder signals, the signal selector is responsive to transponder select information transmitted by the gateway and selects a plurality of transponder signals from at least one broadband LNB signal based on the transponder select information as described below:

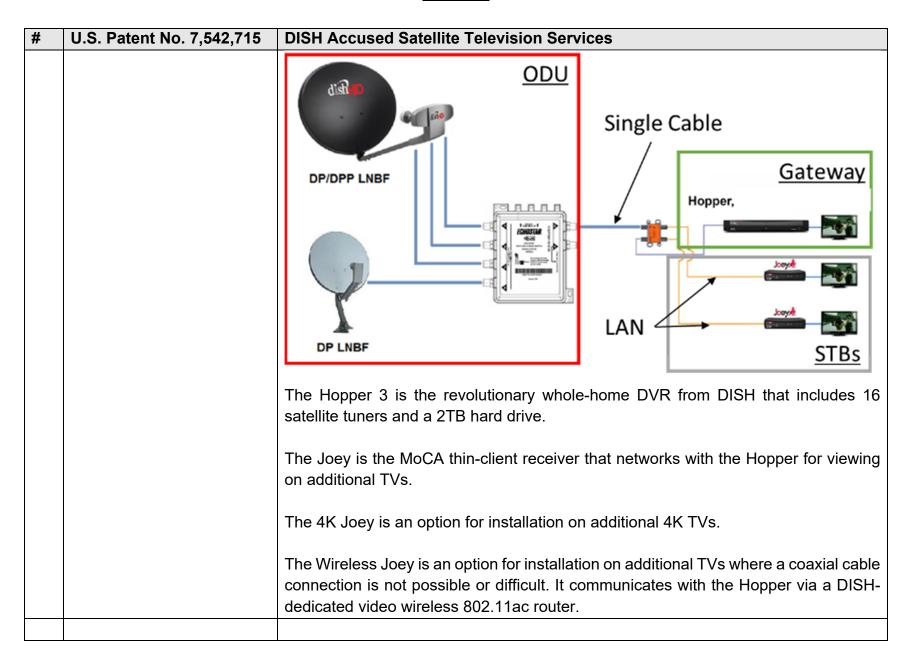


#	U.S. Patent No. 7,542,715	DISH Accused Satellite Television Services
		BCM4554 Press Release Discloses: Broadcom's BCM4554 offers a higher level of integration while consuming less power than the previous generation chipset. It also enables direct sampling of low-noise block (LNB) outputs across worldwide ODU satellite markets. The simplified design of Broadcom's new ODU chipset allows 32 DVB-52 channels to be stacked on a single coaxial cable to service any STB in a home, simplifying and reducing satellite operator installation costs. Key Features and Benefits:
		 Second generation with reduced power and better integration in 28 nm process 4 RF inputs and IRF output covering the 250 to 2350 MHz frequency range 32 user-band output channels 32 output channels selectable from any LNB input Frequency shift keying (FSK) and digital satellite equipment control (DiSEqC)
9d	a frequency translator coupled to the signal selector that is capable of shifting the selected transponder signals to new carrier frequencies to produce RF signals; and	The gateway systems include a frequency translator coupled to the signal selector that is capable of shifting the selected transponder signals to new carrier frequencies to produce RF signals as described below:



#	U.S. Patent No. 7,542,715	DISH Accused Satellite Television Services
9e	a signal combiner coupled to at least one frequency translator capable of combining at least two RF signals to produce a composite signal;	The gateway systems include a signal combiner coupled to at least one frequency translator capable of combining at least two RF signals to produce a composite signal as described below: Technology Advantages: • Drives future TV: leapfrogs current analog architecture by moving to digital and supporting up to 24 minimally spaced channels; opens up the ability to stream independent HD broadcast streams and IP services from a single cable to multiple connected devices, delivering next-generation satellite TV. • Simplifies installation and upgrades: Broadcom's stacked channel technology allows single cable installation, which significantly reduces the cost and complexity for installs and upgrades with better home theater aesthetics for subscribers. • Full-Band Capture (FBC): Broadcom's digital tuning technology digitizes the entire spectrum enabling more efficient and flexible distribution of video streams and IP services. • Lower system cost, replaces multiple analog ODU chips with a single lower cost mixed signal chip.
9f	wherein the modulation of the composite signal is the same as the modulation of the broadband LNB signals and wherein the composite signal is transmitted to the gateway and the gateway receives the composite signal, decodes specific programs, and distributes the programs over a digital local area network (LAN) to STBs.	The modulation of the composite signal is the same as the modulation of the broadband LNB signals and wherein the composite signal is transmitted to the gateway and the gateway receives the composite signal, decodes specific programs, and distributes the programs over a digital local area network (LAN) to STBs as described below: Technology Advantages: * Drives future TV: leapfrogs current analog architecture by moving to digital and supporting up to 24 minimally spaced channels; opens up the ability to stream independent HD broadcast streams and IP services from a single cable to multiple connected devices, delivering next-generation satellite TV. * Simplifies installation and upgrades: Broadcom's stacked channel technology allows single cable installation, which significantly reduces the cost and complexity for installs and upgrades with better home theater aesthetics for subscribers. * Full-Band Capture (FBC): Broadcom's digital tuning technology digitizes the entire spectrum enabling more efficient and flexible distribution of video streams and IP services. * Lower system cost* replaces multiple analog ODU chips with a single lower cost mixed signal chip.





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10	10. The signal distribution system of claim 9 wherein a translation table maps original channel locations on the selector input to new channel locations on the selector output.	Upon information and belief, a translation table maps original channel locations on the selector input to new channel locations on the selector output as described below: Comparison
11	11. The signal distribution system of claim 10 wherein the translation table is maintained by a controller located in the gateway and the translation table is communicated to devices in the network.	Upon information and belief, the gateway maintains the translation table and communicates the translation table to the STBs via the network.

